Information

• Course site:
  LRZ Building, Boltzmannstr. 1, D-85748 Garching bei Muenchen,
  Kursraum 2, H.U.010

• Tutorials:
  Every day, interleaved with lectures
PRACE Courses

PRACE Training Courses

LRZ is part of the Gauss Centre for Supercomputing (GCS), which is one of the ten PRACE Training Centres that started in 2012-2017:

- Barcelona Supercomputing Center (Spain)
- CINECA Consorzio Interuniversitario (Italy)
- CSC – IT Center for Science Ltd (Finland)
- EPCC at the University of Edinburgh (UK)
- Gauss Centre for Supercomputing (Germany)
- Maison de la Simulation (France)
- GRNET – Greek Research and Technology Network (Greece)
- ICHEC – Irish Centre for High-End Computing (Ireland)
- IT4I – National Supercomputing Center VSB Technical University of Ostrava (Czech Republic)
- SURFsara (The Netherlands)

Mission: Serve as European hubs and key drivers of advanced high-quality training for researchers working in the computational sciences.

http://www.training.prace-ri.eu/
Presenters

• Presenters:
  • Dr. Reinhold Bader, LRZ
  • Dr. Jan Eitzinger, RRZE
  • Dr. Georg Hager, RRZE
  • Dr. Sandra Mendez, LRZ
  • Dr. Andrey Semin, Intel
  • Dr. Volker Weinberg, LRZ
## Tentative Schedule

PRACE Course: Advanced Topics in High Performance Computing, LRZ, 18.-21.3.2019

<table>
<thead>
<tr>
<th>Day A1</th>
<th>Day A2</th>
<th>Day A3</th>
<th>Day A4</th>
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<tbody>
<tr>
<td>9:00 – 9:30</td>
<td>Welcome &amp; Intro to MUC (Weinberg)</td>
<td>Scientific Data Libraries:</td>
<td>PGAS programming with coarray Fortran and Unified Parallel C (Bader)</td>
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<td>9:30 – 10:00</td>
<td>Processor-Specific Optimization (Eitzinger)</td>
<td>HDF5, Scalable I/O library; SIOnlib</td>
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<td>10:00 – 10:30</td>
<td>Parallel I/O with MPI IO (Hager)</td>
<td>(Mendez)</td>
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<td>12:30 – 13:00</td>
<td>Lunch break</td>
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<tr>
<td>14:30 – 15:00</td>
<td>Processor-Specific Optimization (Eitzinger)</td>
<td>Tuning I/O on LRZ's HPC systems</td>
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<td>15:00 – 15:30</td>
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<td>I/O Profiling: Darshan</td>
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<td>15:30 – 16:00</td>
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<td>tool (Mendez)</td>
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<td>16:00 – 16:30</td>
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<td>Guided SuperMUC Tour</td>
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<td>16:30 – 17:00</td>
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<td>(Weinberg)</td>
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Weinberg, 08/03/2019
Learning Management Platform

- Moodle™ is a learning management platform at RRZE
- Workshop page: https://goo.gl/c2wTi2

https://moodle.rrze.uni-erlangen.de/course/view.php?id=111

- You can enter as a guest, but to participate in forums and enter polls you have to register:
  - Create an account, specify your email address.
  - This way we can also reach you even after the course.
- Exercises will be done on the LRZ IvyMUC cluster.
IvyMUC Cluster at LRZ
And now …

Enjoy the course!